



M/003/026
TSLID#1458

June 28, 2006

Michael G. Nelson
Assistant Field Office Manager
Bureau of Land Management
2370 South 2300 West
Salt Lake City, UT 84119

RECEIVED

JUN 29 2006

DIV. OF OIL, GAS & MINING

Re: 3600
U-77761
UT-023

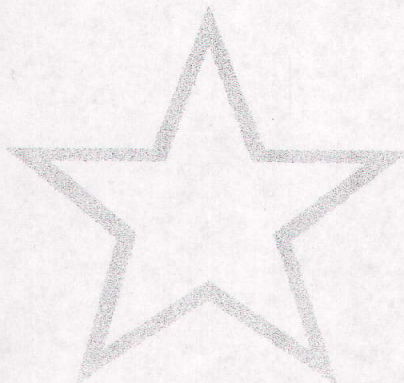
Dear Mr. Nelson,

Thank you for your response to our January 11, 2006 letter and please thank Michael Ford for the continued extensions while we collected the proper information. We appreciate your willingness to consider our request to amend the mining plan for Rosebud #1 and #2 from 9.5 acres to 24 acres. Enclosed is the information requested in your letter dated January 17, 2006.

Sincerely,

Lon Thomas
President

Cc: Michael Ford
Lynn Kunzler, DOGM
Susan White, DOGM



Star Stone Quarries, Inc.

4040 South 300 West, Salt Lake City, UT 84107
801-747-7107 Fax 801-262-5069

1. Star Stone Quarries, Inc. Taxpayer Identification Number: 87-0648219

Please keep this information strictly confidential and it should not be made available through Freedom of Information Act requests.

2. ***Description of the equipment, devices, or practices you propose to use during operations including, where applicable:***

a) ***Maps of the project area showing locations of mining activities,***

Maps of the Project Area:

Map 2A-1 – Route of Access from the nearest highway (is Map 1.2 of current mining plan)

Map 2A-2 – Property boundaries of surface ownership (is Map 1.1 of current mining plan)

Map 2A-3 – Area showing currently permitted area and additional area requested to be increased

Map 2B-1 – Reflects cross sections

Map 2B-2 – Side section for Sage Green and Park Valley White Quarries

Map 2B-3 – Side Section Sage Green Quarry Current 6/1/06

Map 2B-4 – Sage Green Quarry Current Overlay 6/1/06

Map 2B-5 – Sage Green Quarry preliminary conceptual operation plan - first

Map 2B-6 - Sage Green Quarry preliminary conceptual operation plan - second

Map 2B-7 - Sage Green Quarry preliminary conceptual operation plan - third

b) ***Preliminary or conceptual designs, cross sections, and operating plans for mining areas,***

Our quarry operation plan is to excavate a series of contiguous benches of thin-bedded Quartzite with a 30-ton class hydraulic excavator. Rarely, but as needed, we will drill and blast areas that are difficult to excavate in the normal way. Refer to maps 2B-1 through 2B-7.

The stone from the excavation is placed in a surge pile by the excavator and then distributed, with a front-end loader, to men on the quarry dump where they process the stone. Processing includes splitting, grading and stacking on pallets to get ready for shipping. The stone is shipped via customer-arranged semi-trucks using commercial carriers.

The current excavations on both quarries each start about 100 feet north of a dry wash and the dump material is pushed toward the wash.

We would like to be permitted to put a 60' by 24" culvert in the wash by the Sage Green Quarry. Then we would put our waste on the south side of the wash. This would allow us to excavate our first bench near the wash and be able, after sometime, to reach final depth.

After reaching final depth at the first bench successive work would progress north and waste from future quarrying would fill in the exhausted portion of the quarry. This would work as concurrent reclamation and reduce mining and reclaiming costs of the entire operation.

A similar process is proposed at the Park Valley White Quarry except that the dry wash is very shallow and we would like to cross the wash as it is with no culvert in order to place our waste on the south side.

c) ***Water management plans***

There is no perennial water on either the Park Valley White or Sage Green Quarries. There are dry washes that carry seasonal and storm run-off.

We plan on installing a 24" x 60' culvert in the wash as the Sage Green Quarry, which will be removed at final reclamation. The culvert will allow proper water flow.

We propose no culvert in the very shallow dry wash below the Park Valley Quarry. Instead we will simply smooth the sides and bottom to facilitate equipment crossing easily to stockpile waste material from the quarry or to the southwest side of the wash.

We will not impede or restrict this occasional water flow in this drainage.

d) ***Spill contingency plans***

We are not grinding any material with water, therefore, we have no tailings to spill.

The only thing that may be of concern if it did spill would be fuel or oil that is stored on site to operate the equipment. These materials are stored in a secondary containment container as a contingency plan to catch the fluid in the case of a spill.

e) ***A general schedule of operations from start through closure***

The mine has been in operation for several years and is still in current operation. The quarry is operated, as needed, each year, usually for about for two months, during which time we stockpile enough stone for our annual sales.

With this amendment we would like to expand the boundaries of our operations, which will make them more efficient.

We would also like to expand the time of operation to year round.

The expanded time of operation will let us have greater equipment utilization thus reducing the cost of operation.

The mine will operate on successive benches following the thin-bedded stone layers up the mountain. We plan on quarrying this lower portion of the deposit down to final grade as soon as prudently possible.

Then as we quarry successive benches we will place the waste downhill into the excavated quarry floor thus concurrently reclaiming as we quarry and putting waste in a location that will not require it to be moved again either by operational or by reclamation efforts.

When all of the desirable stone has been quarried then the quarry will be reclaimed according to BLM standards and the current approved mining and reclamation plan.

There is substantial volume of desirable stone within these two mining claims. Production is expected to extend beyond 20 years.

f) ***Plans for all access roads, water supply pipelines.....***

There are no water supply pipelines, power or utility services to or at the quarry. Access roads are already established.

3. ***A plan for reclamation to meet the standards at 43 CFR 3809.420, with a description of the equipment, devices, or practices you propose to use including, where applicable, plans for:***

The reclamation plan remains the same as in the current mine plan, however listed below are answers to the specific items listed in your letter.

✓ a) ***Regrading and reshaping***

All slopes will be regarded to a slope of less than 3:1 horizontal - vertical.

✓ b) ***Mine reclamation, including information on the feasibility of pit backfilling.....***

With the approval of the amendment we will be able to fill in our excavated quarry areas that have reached final grade as we progress into new areas. This will make the mine more efficient, improving the economic, environmental, and safety factors.

✓ c) ***Riparian mitigation***

Riparian mitigation is not applicable.

✓d) **Wildlife habitat rehabilitation**

These areas were wildlife-grazing areas prior to the operation and at final reclamation will be reclaimed with the recommended seeding mix to reestablish continued grazing in the area. There are several deer that range near this operation; thus far the operation seems to have a negligible effect on them. The deer currently graze whenever and wherever they please.

e) **Topsoil handling**

Top soil handling: the reasonable recoverable soil will be stripped from new areas and stockpiled in top soil stockpile areas prior to quarrying the stone in those areas.

✓f) **Revegetation**

See Attachment 1 – pages taken directly from the currently approved mining plan.

✓g) **Isolation and control of toxic or deleterious material**

The only toxic or deleterious material envisioned on site would be fluids for operating equipment such as: diesel fuel, oil, starting fluid, etc. They will all be stored in a secondary containment unit.

✓h) **Removal or stabilization of buildings, structures.....**

No permanent buildings, structures or support facilities are proposed at this time.

✓i) **Post-closure management**

A company representative will inspect the mine site once per year and do or oversee reclamation treatments as required until the closed quarry has been passed by the BLM as reclaimed.

4. **A proposed plan for monitoring the effect of your operations.....**

A senior company official will consult with the state DOGM or BLM official(s) after their annual site inspection to insure compliance with this amendment. Then any detected areas of non-compliance will be timely and appropriately addressed.

5. ***A plan to manage the project area during periods of temporary closure (including periods of seasonal closure) to prevent unnecessary or undue degradation. The interim management plan must include.....***

a) ***Measures to stabilize excavations and workings***

The measures to stabilize excavation and work during periods of seasonal closures, will be to operate the quarry on limited height benches. Keeping the quarry terraced with benches will prevent unnecessary or undue degradation.

b) ***Measures to isolate or control toxic or deleterious materials.....***

Potentially deleterious materials that are or may be stored on site include a 500-gallon fuel tank at the Green Quarry, one barrel of hydraulic oil, one barrel of motor oil, one case of tube grease, and one case of starting fluid. These materials shall be handled and stored in accordance with the manufacturers instructions. Care will be taken to minimize spills and to not use the materials in such a way as to create a fire hazard.

A secondary containment structure will be used that will hold at least 110% of the capacity of the stored fluid. It will also be used to contain barrels of motor oil and hydraulic oil.

c) ***Provisions for the storage or removal of equipment, supplies and structures***

There are no structures. The equipment and supplies will simply be hauled off at the end of their necessary on-site use.

d) ***Measures to maintain the project area in a safe and clean condition.....***

The project area will be inspected regularly during operation by a company representative to insure that it is kept in a safe and clean condition.

e) ***Plans for monitoring site conditions during periods of non-operation....***

The project site will be put in a clean and safe condition prior to leaving it for a period of non-operation. If the period of non-operation extends beyond 1-year then a company representative will inspect the site once per year to insure its proper condition.

f) ***A schedule of anticipated periods of temporary closure***

With the approval of this amendment we anticipate an increase in the production volume of these quarries and at least minimal year-round presence or activity.

6. ***An estimate of the cost to fully reclaim your operations.....***

The estimate for fully reclaiming the operations as required by 43 CRF 3809.552 is attached. Attachment #2

Attachment 1

(taken from page 15 and 16 of the approved mining plan – no changes were made)

110.5 – Revegetation planting program and topsoil redistribution

1. Soil material replacement: Fines from waste dumps will be spread over the solid rock on the quarries. Salvaged soil material from the topsoil stockpile will be placed on top of this layer. The mixture will be approximately 18" thick.

The remaining material in the dump will be spread with a D-8 dozer. Salvaged soil material from the topsoil stockpile will be worked in and spread out. This should provide a surface with sufficient fines to support vegetation.

2. The topsoil will be amended with an application of composted manure at the rate of five tons per acre.
3. Seed bed preparation: The seed bed will be scarified with the loader teeth, if needed, or already be sufficiently loose from spreading with the dozer.
4. Seed mixture: We propose to use a seed mixture recommended by the BLM and DOGM as being suitable for this area.
5. The seed will be broadcasted between October 15 and November 30, just after scarifying with loader teeth. This should prove to be an effective method to begin germination of seeds.
6. Fertilization: fertilizer use will be minimized to discourage the growth of weeds, especially on the reclaimed road surface. Soil amendments will be added as required.
7. Other revegetation procedures: None

We plan to see the affected areas with the seed mixture recommended by DOGM. We will rely on DOGM to coordinate with the BLM and other agencies that may have control over seeding to insure the seed mixture to be used is acceptable to all agencies. The seed will be applied at the recommended rate.

<u>Common Name</u>	<u>Species Name</u>	<u>*Rate lbs/ac (PLS)</u>
'Hycrest' crested wheatgrass	Agropyron cristatum 'Hycrest'	0.75
Intermediate wheatgrass	Agropyron intermedium	1.0
Bluebunch wheatgrass	Agropyron spicatum	2/0
Orchard grass	Dactylis glomerata	0.5
Sandberg bluegrass	Poa sandbergii	0.5

Basin wildrye	Elymus cinereus	1.5
Ladak alfalfa	Medicago sativa	1.5
Yellow sweetclover	Melilotus officinalis	0.5
Palmer penstemon	Penstemon palmeri	0.5
Small burnet	Sanguisorba minor	2.0
Wyoming big sagebrush	Artemisia tridentate wyomingensis	0.1
4-Wing saltbrush	Atriplex canescens	1.5
Rubber rabbitbrush	Chrysothamnus nauseosus	0.25
Forage kochia	Kochia prostrata	0.5
Bitterbrush	Purshia tridentate	1.0
Total:		14.1 lbs/acre

*This is the recommended broadcast seeding rate (from DOGM).

If the species are to be drill seeded, decrease the rate of grass species by 1/3 (from DOGM).

Reclamation Surety Estimate

Revised June 28, 2006
Green Quarry, White Quarry, Road

Mine Name: Rosebud Quarry

Components: Green Quarry = ~~5.64~~ 15 ac, White Quarry = ~~3.20~~ 9 ac, Road = 0.66

Total: ~~9.50~~ 24 ac.

Insert details of reclamation here:

1. Scoop first 3-4 ft. of dump with 7-yard loader then place it on the quarry floor to cover solid rock and recountour. This establishes a base for the soil mixture that will be spread. 2. Finish up the contouring with a dozer. 3. Spread soil mixture from the soil stockpile and recountour areas with a loader. 4. Finish spreading soil with a dozer and excavator to final grad. 5. Broadcast seed and fertilize if needed.

Amount of developed area which will receive full reclamation treatments =
Estimated total developed area for this mine =

~~8.65~~ 23.34

~~9.5~~ 24

Activity	Qty.	Unit	\$/Unit	\$	Amended
Safety gates, signs, etc		sum	200	0	
Demolition of buildings & facilities	0	CF	0.2	0	
Debris & equipment removal - trucking	0	trips	48	0	
Debris & equipment removal - dump fees	0	CY	6	0	
Debris & equipment removal - loading trucks w/FE loader	0	hours	166	0	
Demolition & debris removal - general labor	0	hours	15	0	
Regrading facilities areas	0	acre	415	0	
Ripping wast dump tops (3.50 10 ac)	3.5 10	acre	220	770	2,220
Regrading wast dump tops (4.49 12 ac. of quarry to cover)	9658 25,812	CY	0.82	7,920	21,165
16-inch deep waste dump fines for quarry cover					
Ripping casual use area	0	acre	220	0	
Ripping pit floors	0	acre	363	0	
Ripping pit access roads	0	acre	363	0	
Creating safety berms or barriers around highwalls	0	LF	0.1	0	
Ripping access roads - dozer	0.66	acre	363	240	
Sidecast material replacement on steep roads - trackhoe	0	LF	0.9	0	
Surface drainage restoation of construction	0	LF	0.1	0	
Topsoil replacement - dozer (100% of vol), 8.65 24 ac., 6" th.	19,361	CY	0.64	4,466	7,744
Topsoil replacement-scraper	0	CY	1	0	
Topsoil replacement - truck & FE loader (0% of volume)	0	CY	3.47	0	
Mulching (composed manure @ 10 ton/acre)	0	acre	300	0	
Fertilizing (1000lb/acre diammonium phosphate)	0	acre	90	0	
Broadcast seeding (13.1 lb/acre)	8.65 24	acre	120	1,038	2,880
Drill seeding (~8.7 lb/acre)	0	acre	150	0	
General site cleanup & trash removal	9.5 24	acre	50	475	1,233
Equipment mobilization (loader, dozer, excavator)	3 4	equip	1000	3,000	4,000
Reclamation Supervision (est. 2 4 days at each quarry)	4 8	days	356	1,424	2,848
Subtotal:				19,333	42,090
10% Contingency				1,933	4,209
Subtotal:				21,266	46,299
Escalate for 5 years at 3.27% per year				3,712	8,081
Total:				24,978	54,380

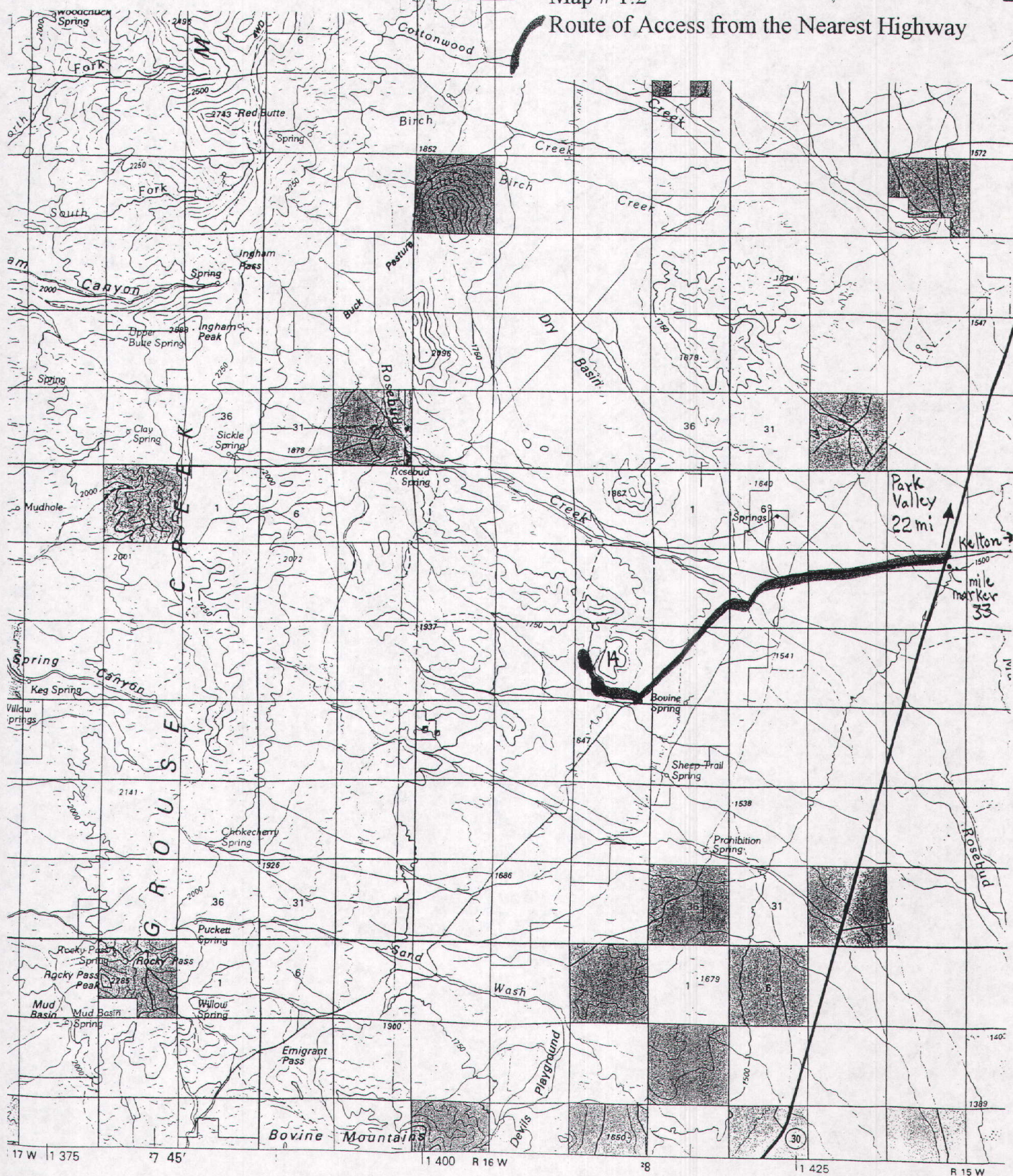
75,100

Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2A-1: Route of Access

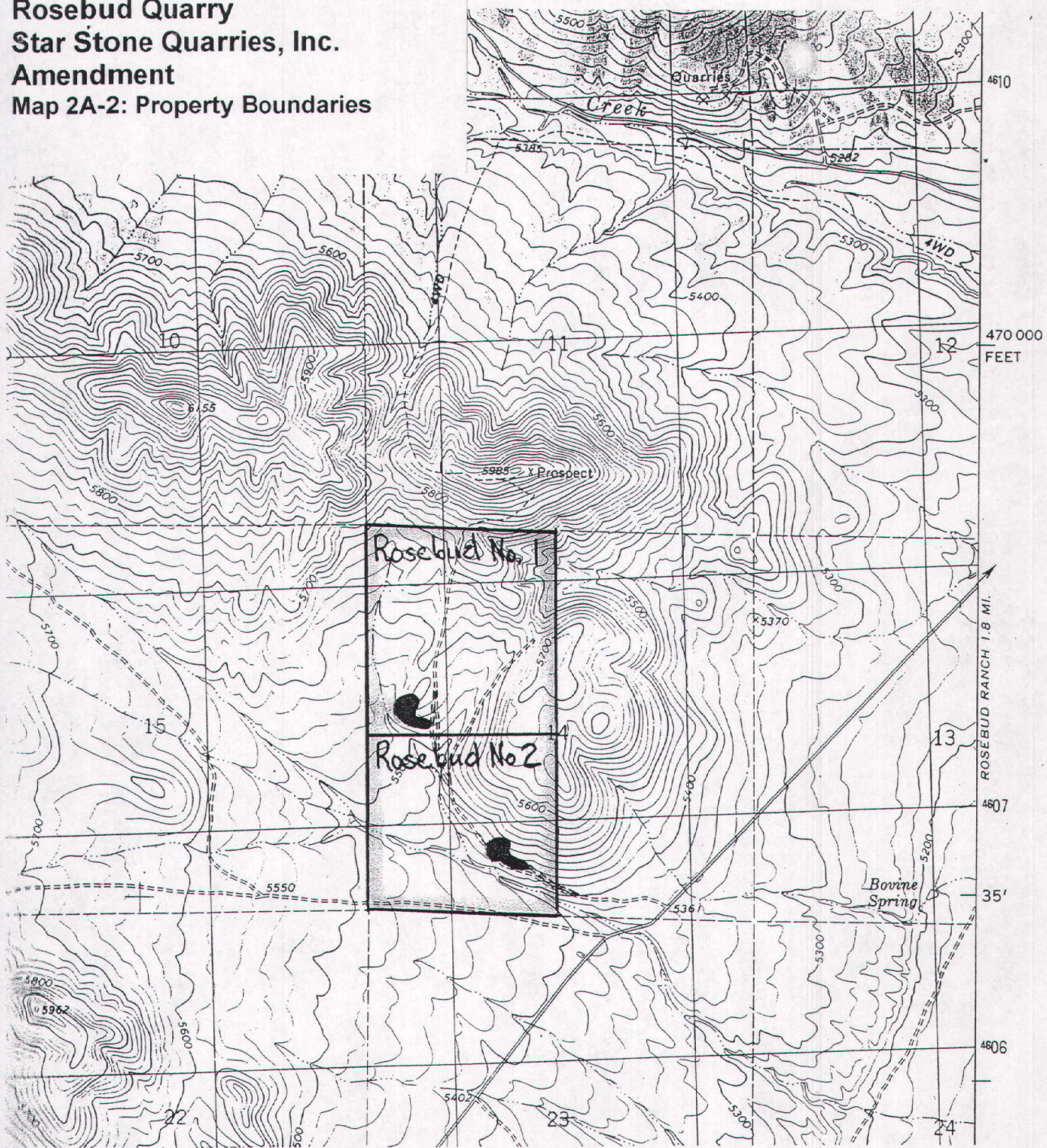
ROSEBUD QUARRY
STAR STONE QUARRIES, INC.

Map # 1.2

Route of Access from the Nearest Highway

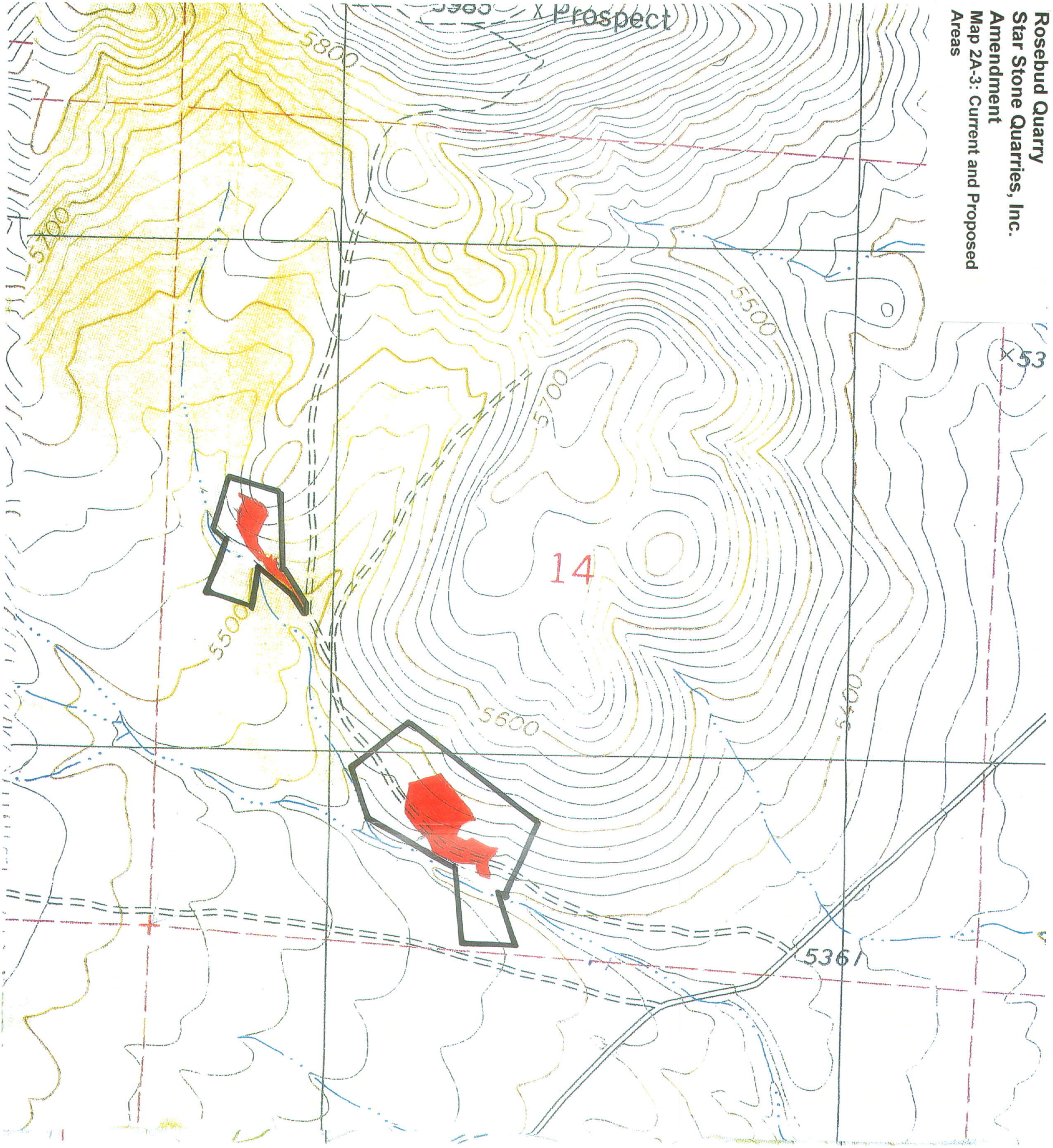


Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2A-2: Property Boundaries



ROSEBUD QUARRY
STAR STONE QUARRIES, INC.
Map # 1.1
Property Boundaries of Surface Ownership
Streams Affected by Operation

RECEIVED
SL FIELD
OFFICE
DEPT OF INTERIOR
BUR. OF LAND MGMT
00 JUN 15 PM 4 31



LOCATION: Section 14, T10 N, R16 W, SLB&M

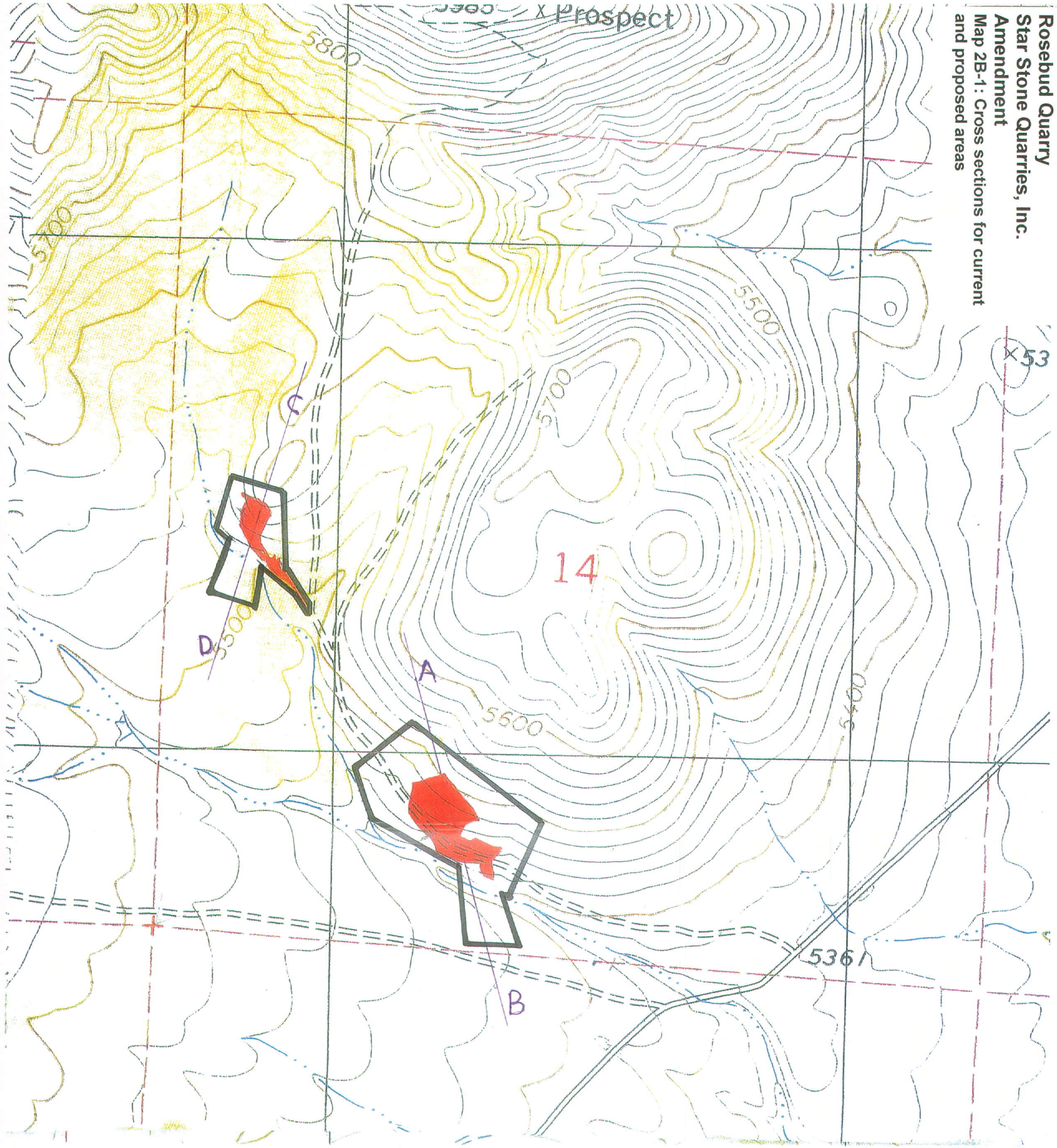
SCALE: 1" = 637'

9.5 ACRES; CURRENT BONDED PERMITTED AREA



REQUESTED AREA TO BE INCREASED TO 24 ACRES





LOCATION: Section 14, T10 N, R16 W, SLB&M

SCALE: 1" = 637'

9.5 ACRES; CURRENT BONDED PERMITTED AREA

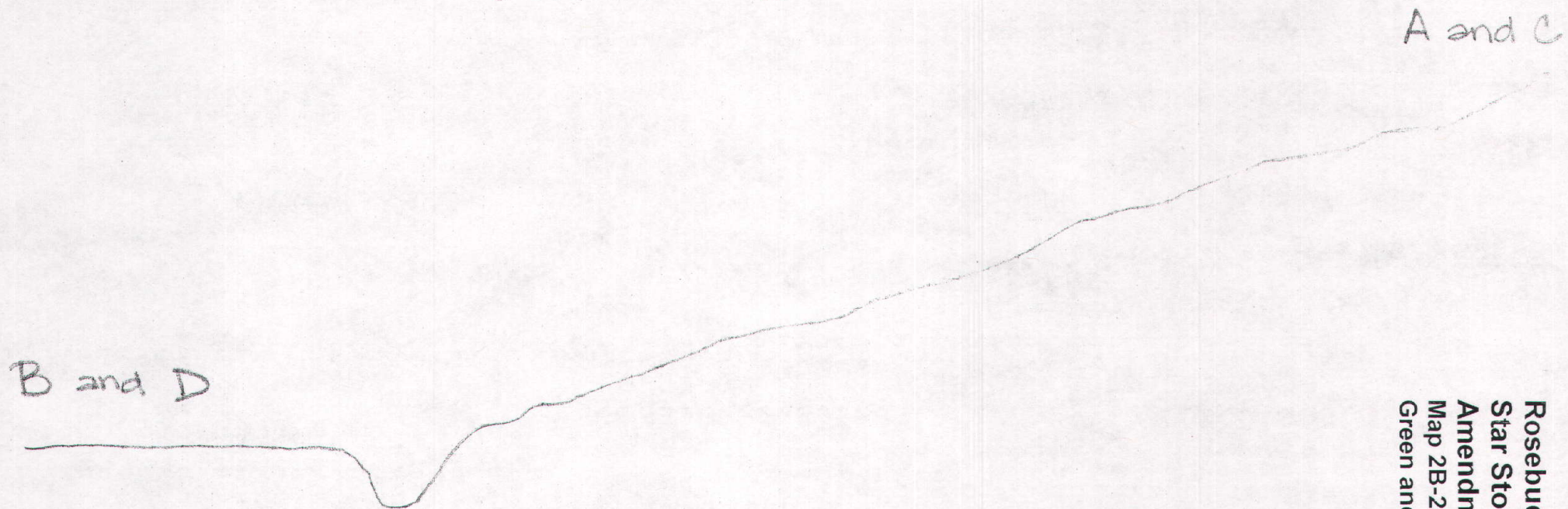


REQUESTED AREA TO BE INCREASED TO 24 ACRES



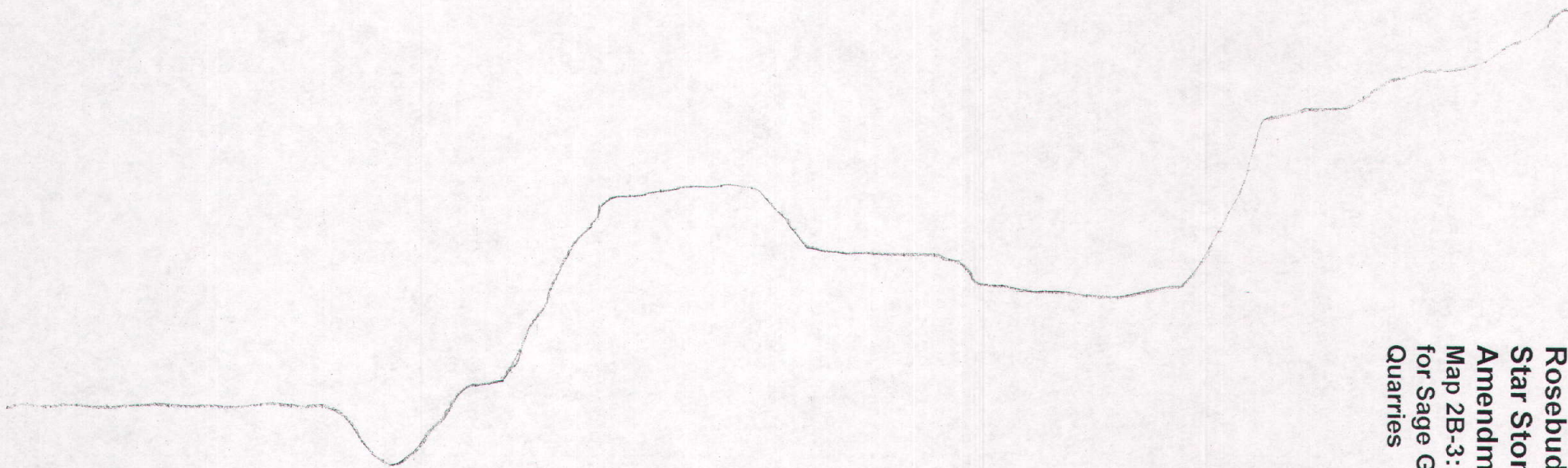
SIDE SECTION A-B; C-D
SAGE GREEN QUARRY

ORIGINAL SURFACE



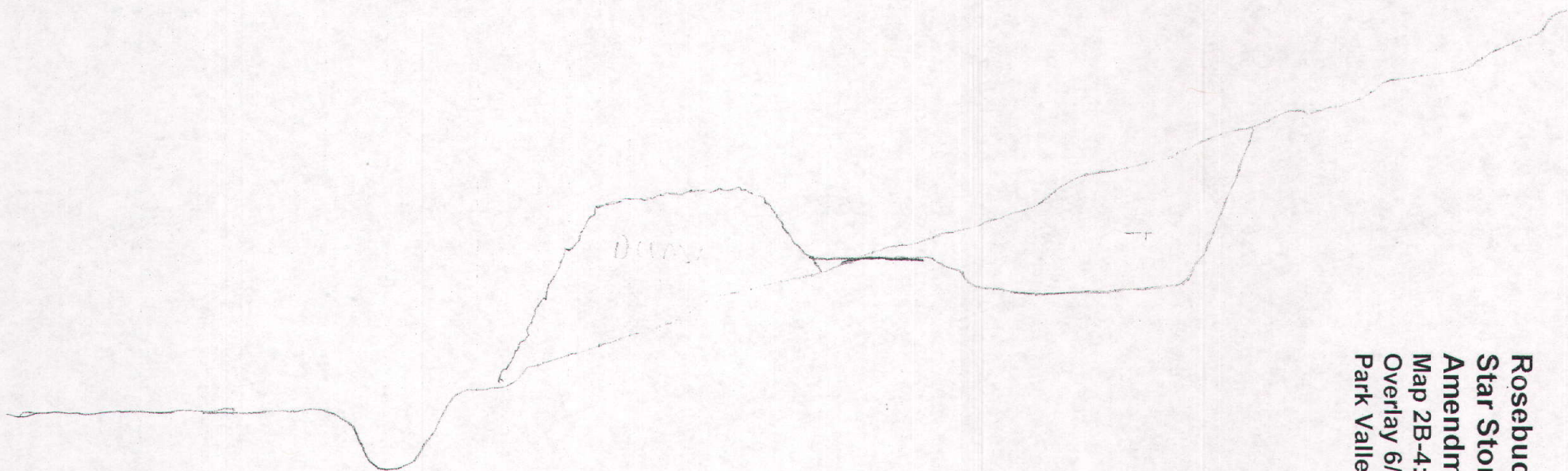
Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2B-2: Side Section for Sage
Green and Park Valley White Quarries

SIDE SECTION A-B
SAGE GREEN QUARRY
CURRENT 6-1-06



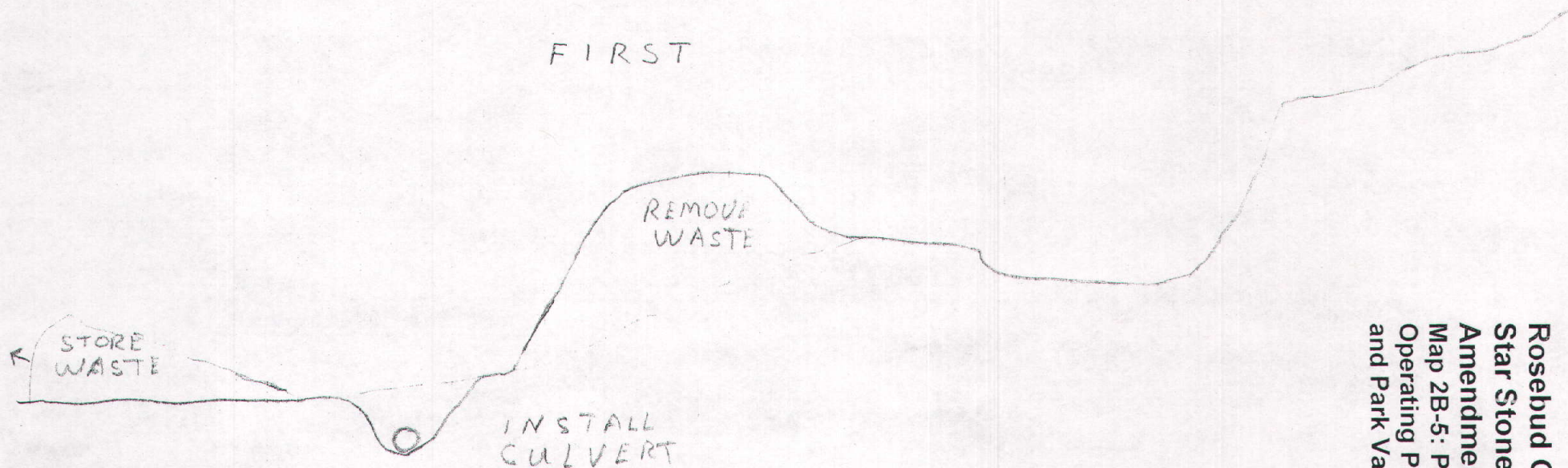
Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2B-3: Side Section-Current 6/1/06
for Sage Green and Park Valley White
Quarries

SIDE SECTION A-E
SAGE GREEN QUARRY
CURRENT OVERLAY
6-1-06



Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2B-4: Side Section-Current
Overlay 6/1/06 for Sage Green and
Park Valley White Quarries

SIDE SECTION A-B
SAGE GREEN QUARRY
PRELIMINARY CONCEPTUAL
OPERATING PLAN
FIRST



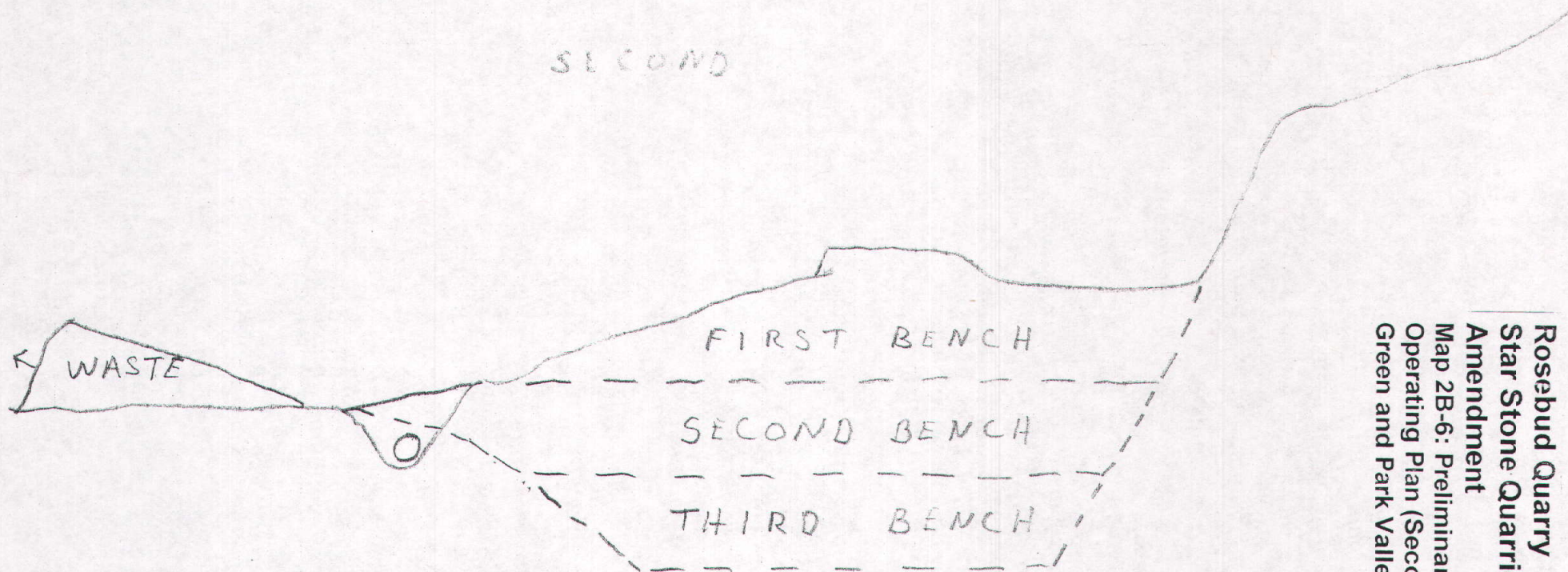
Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2B-5: Preliminary Conceptual
Operating Plan (First) for Sage Green
and Park Valley White Quarries

SIDE SECTION A-B

SAGE GREEN QUARRY

PRELIMINARY CONCEPTUAL
OPERATING PLAN

SECOND



Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2B-6: Preliminary Conceptual
Operating Plan (Second) for Sage
Green and Park Valley White Quarries

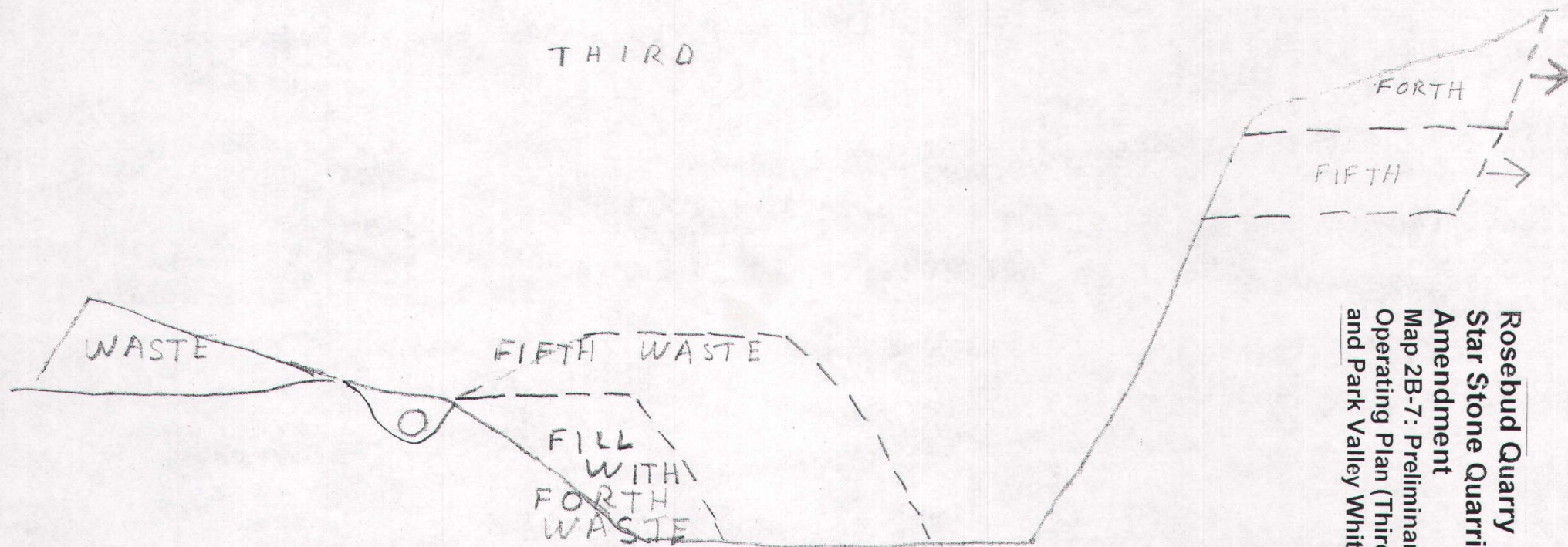
SIDE SECTION A-B

SAGE GREEN QUARRY

PRELIMINARY CONCEPTUAL

OPERATING PLAN

THIRD



Rosebud Quarry
Star Stone Quarries, Inc.
Amendment
Map 2B-7: Preliminary Conceptual
Operating Plan (Third) for Sage Green
and Park Valley White Quarries